

MONTGOMERY WARD

OWNER'S GUIDE

51112
11/4/44

INSTRUCTIONS FOR ASSEMBLING, OPERATING AND MAINTAINING

POWR-KRAFT 12" JIG SAW MODEL NO. 94FD-2355A

ASSEMBLING INSTRUCTIONS

This saw is partially assembled at the factory, therefore, read the instructions carefully before attempting to complete the assembly.

1. Remove bag set and parts from carton and paper wrappings.

2. TABLE:

- A. Turn 1" long round head machine screw into hole in frame as indicated on side view drawing. Use hex nut to lock in place.
- B. Insert rear trunnion pivot pin through frame. Place onto it, shakeproof washer and hex jam nut, tighten in place.
- C. Place table (long lug to front) over rear trunnion pivot pin.
- D. Place on 3/8" x 3/4" hex head cap screw, plain washer and insert through lug in table and into frame.
- E. Attach pointer to frame.

3. BLADE:

- A. Insert blade into lower chuck as far as possible.
- B. Turn pulley until lower spindle reaches its highest point. Press upper spindle down about 1/8" and lock blade in upper chuck.
- C. Turn pulley over one full revolution. If blade buckles take more of the blade into the upper chuck until buckle is eliminated. If you cannot make a complete revolution when turning pulley by hand the blade is inserted too far into the chuck.

4. ALIGN TABLE:

- A. Secure a machinist's square, set base on table and leg against blade.
- B. When table is at true 90° set pointer at zero.

5. BLADE GUIDE SHAFT:

Insert blade guide shaft in hole in upper casting and tighten thumb screw to lock it.

6. BLADE GUIDE:

- A. Turn one hex head nut onto shaft with rounded edge up.
- B. Place blade guide onto shaft and screw second hex head nut onto shaft, flat side up.
- C. Adjust blade guide to within 1/32" to 1/64" from back of blade and lock the nuts.

7. AIR PUMP:

Attach air pump to frame as per instructions furnished with air pump using screws and nuts furnished.

8. MOTOR:

- A. USE:

1. A 1/4 H.P. 1725 RPM Motor such as Ward's 83-4551M.

2. A 2" V Pulley, such as Ward's 84-2877.
3. A 42" V Belt, such as Ward's 84-2876.
4. A 84-2960 Steel Stand for general utility and best mounting. (NOT TOO MUCH TENSION ON BELT).

- B. WIRING DIRECTIONS:

Wire motor to our 84-2969 Switch following directions on motor plate or tag.

After the above procedure has been followed the saw is ready for operation.

OPERATING INFORMATION

1. TABLE:

- A. Table may be tilted by loosening lock screw on front, underneath the table. Set at degree of tilt desired and lock.
- B. Set round head machine screw which is used as a table stop so that table cannot be tilted beyond zero on one side.

2. BLADE GUIDE:

- A. Blade guide helps hold work on table. Set it as close to work as possible without interfering.
- B. Base of "V" in guide should be about 1/64" back of saw blade. Blade should ride on guide only when work is being forced through.

3. TYPE OF BLADES:

It is advisable that you check our catalogs or read the description given on the accessory page in this instruction sheet. This will advise you as to what type of blade to use for cutting celluloid, bakelite, plastic, wood, brass, etc. The right type of blade should always be used in order to secure the best results.

4. GENERAL INFORMATION:

- A. Rubbing bee's wax on blades makes them cut more freely and cleaner.
- B. Do not force wood back against blade.
- C. Do not force blades backward or sideways.
- D. Hold wood against blade with the lightest of pressure and steer. This method of operation will give you the best possible work and is the secret of practical jig sawing.

MAINTENANCE INFORMATION

1. LUBRICATION:

- A. This saw has not been lubricated, therefore, remove cam housing oil screws (ST42-1/4"-20x1/4"). Pour SAE 30 or 40 oil in the top hole until it starts flowing out of the oil level (lower) hole. If you keep the crankcase filled to the oil level

hole the mechanism will receive sufficient lubrication.

- B. It is necessary, also, to lubricate the Cam Assembly 3000-3 by keeping Drive Oil Cup ST51-3/16" filled with the same grade oil. The upper and lower spindles should have a little SAE 10 oil at the point where they pass through the casting.
- C. Should the upper spindle begin to bind, thus causing blade breakage, it is probable that carbon deposits have formed in the hole through which the upper spindle travels. In such an eventuality we suggest the use of graphite penetrating oil which will wash out the carbon deposits. Flush with SAE 10 oil until spindle shows no further traces of carbon or penetrating oil, wipe spindle dry and add a few drops of SAE 10 oil before operating saw.

2. REPLACING CROSS HEAD ASSEMBLY:

If you should find it necessary to replace

the Cross Head Assembly 3000-12, proceed as follows:

- A. Remove jig saw blade so that there will be no tension on lower spindle spring.
- B. Remove front trunnion pivot screw as well as table.
- C. Remove the round head machine screws holding the housing cover plate and remove same.
- D. Remove socket set screw which is in cross head assembly.
- E. Remove lower spindle spring and cross head assembly by raising lower spindle. Reverse these instructions for reassembling.

When ordering the cross head assembly, always order a new housing gasket so that there will be no leakage of oil after housing cover plate is replaced. Before putting on new gasket, scrape off all that remains of the old gasket from the frame and the cover plate.

HOW TO ORDER REPAIR PARTS FROM ANY WARDS BRANCH

To have your order filled promptly and correctly, please furnish all the following information:

1. Model Number appears on nameplate.
2. Part Number, Name and Description of part (see list).

You pay charges from shipping point. Charges based on size and total weight of order, use any one of the following shipping methods:

PARCEL POST . . . limit 70 lbs. Add postage to remittance.

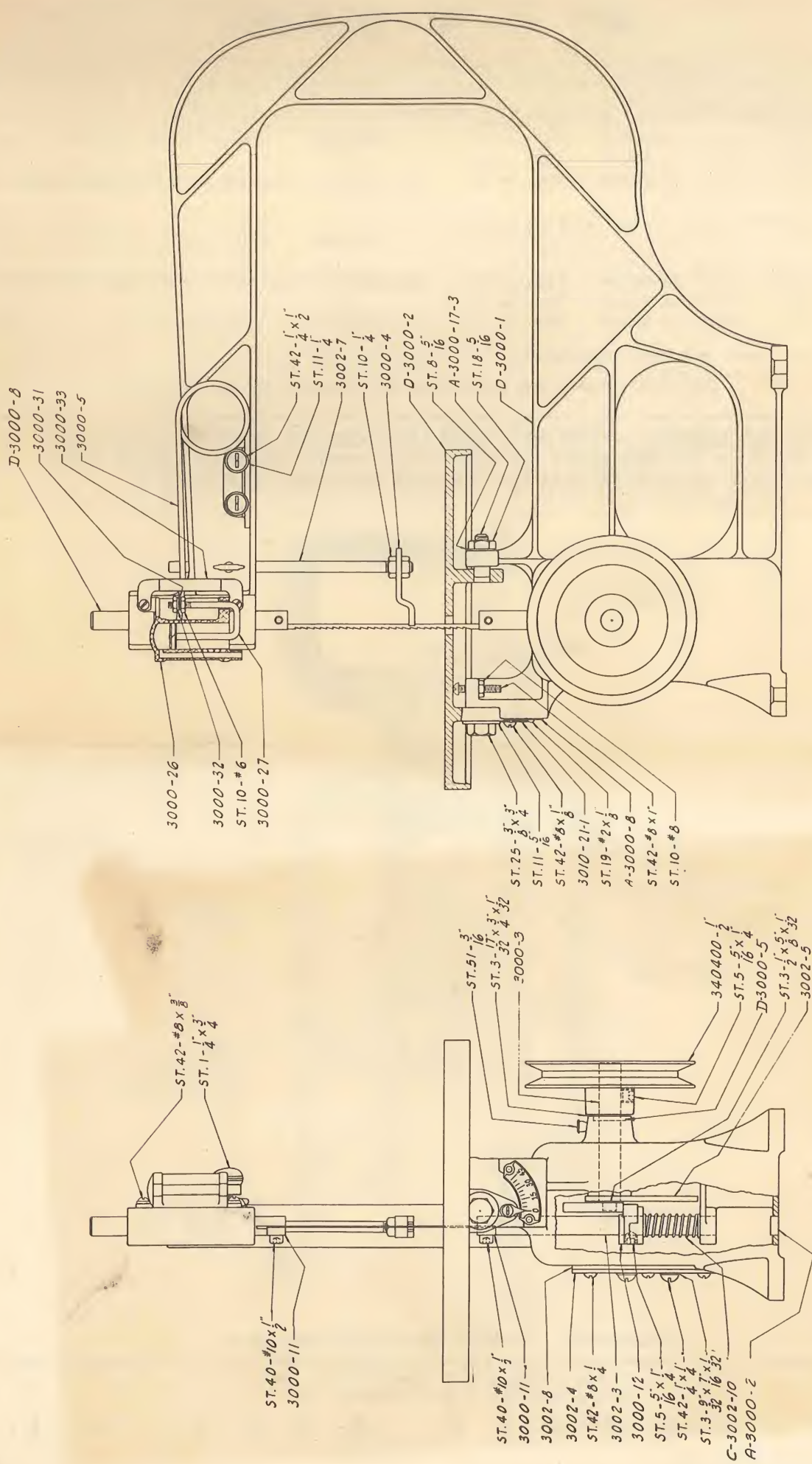
EXPRESS . . . fastest for unmailable or bulky items.

FREIGHT . . . cheapest for unmailable or bulky items.

When goods arrive by express or freight, pay station agent; if no agent, add estimated shipping charges to remittance. See Wards latest General Catalog for these charges. In all cases, any excess will be refunded.

REPAIR PARTS LIST

Part No.	Name of Part	Shpg. Wt.		Price Each	Part No.	Name of Part	Shpg. Wt.		Price Each
		Lbs.	Oz.				Lbs.	Oz.	
3000-3	Cam Assembly	1	-	\$.35		4" V Pulley - 1/2" Bore.	See Ward's Catalogs		
3000-4	Blade Guide.	-	2	.05		5" Jig Saw Blade.	See Ward's Catalogs		
3000-5	Upper Spindle Spring	-	6	.15	ST1	1/4"-20x3/4" Standard Thumb Screw. . .	-	1	.05
3000-11	Clamping Block	-	1	.05	ST3	9/32"x7/16"x1/32" Fibre Washer. . .	-	1	.05
3000-12	Cross Head Assembly	-	3	.35	ST3	1/2"x5/8"x1/32" Fibre Washer.	-	1	.05
3000-26	Air Pump Cylinder	-	4	.40	ST3	17/32"x3/4"x1/32" Fibre Washer. . .	-	1	.05
3000-27	Piston Rod Assembly	-	2	.15	ST5	5/16"-18 x 1/4" Socket Set Screw . . .	-	1	.05
3000-31	Lower Spring Clamp	-	1	.05	ST8	5/16" Internal Shakeproof Washer . .	-	1	.05
3000-32	Upper Spring Clamp.	-	1	.05	ST10	1/4"-20 Standard Hex Nut	-	1	.05
3000-33	Spring Retainer	-	1	.05	ST10	#6-32 Standard Hex Nut	-	1	.05
A3000-2	Frame Plug	-	1	.05	ST10	#8-32 Standard Hex Nut	-	1	.05
A3000-8	Indicator Plate	-	1	.05	ST11	1/4" Standard Washer	-	1	.05
A3000-17-3	Rear Trunnion Pivot Pin	-	1	.05	ST11	5/16 Standard Washer.	-	1	.05
D3000-1	Frame	19	-	9.45	ST18	5/16"-18 Hex Jam Nut	-	1	.05
D3000-2	8" x 8" Table	7	-	3.85	ST19	#2x1/8" Parker-Kalon Drive Screw. . .	-	1	.05
D3000-5	Oil Seal Washer	-	1	.05	ST25	3/8"-16x3/4" Front Trunnion Pivot Pin. .	-	1	.05
D3000-8	Upper Spindle	1	-	.35	ST33	5/16" Socket Set Screw Wrench	-	2	.10
D3000-BS	Bag Set	-	8	1.30	ST40	#10-32x1/2" Fillister Head Cap Screw .	-	1	.05
3002-3	Lower Spindle	1	-	.40	ST42	1/4"-20x1/4" Round Head Machine Screw .	-	1	.05
3002-4	Housing Cover Plate	-	6	.20	ST42	1/4"-20x1/2" Round Head Machine Screw .	-	1	.05
3002-5	Cross Slide Plate	-	8	.10	ST42	#8-32x1/8" Round Head Machine Screw .	-	1	.05
3002-7	Blade Guide Shaft	-	6	.05	ST42	#8-32x1/4" Round Head Machine Screw .	-	1	.05
3002-8	Housing Gasket	-	1	.05	ST42	#8-32x3/8" Round Head Machine Screw .	-	1	.05
C3002-10	Lower Spindle Spring	-	1	.05	ST42	#8-32x1" Round Head Machine Screw .	-	1	.05
3010-21-1	Pointer.	-	1	.05	ST51	3/16" Drive Oil Cup	-	1	.05



JIG SAW BLADES

Blades are listed by the number used in ordering, followed by the thickness and width in inches and then the number of points to the inch. After the listings an explanation is given of the use for which the blades are intended. Blades are available in 5" lengths.

84-2375	.016 x .035 - 21 Teeth	Pkg. of 6	84-2380	.010 x .045 - 18 Teeth	Pkg. of 12
84-2376	.017 x .043 - 18 Teeth	Pkg. of 6	For fast cutting and easy turning in wood, veneer, and plywood.		
84-2377	.020 x .070 - 7 Teeth	Pkg. of 6			

For celluloid, bakelite, plastics and fast sawing in wood.

84-2381 .016 x .034 - 32 Teeth Pkg. of 6

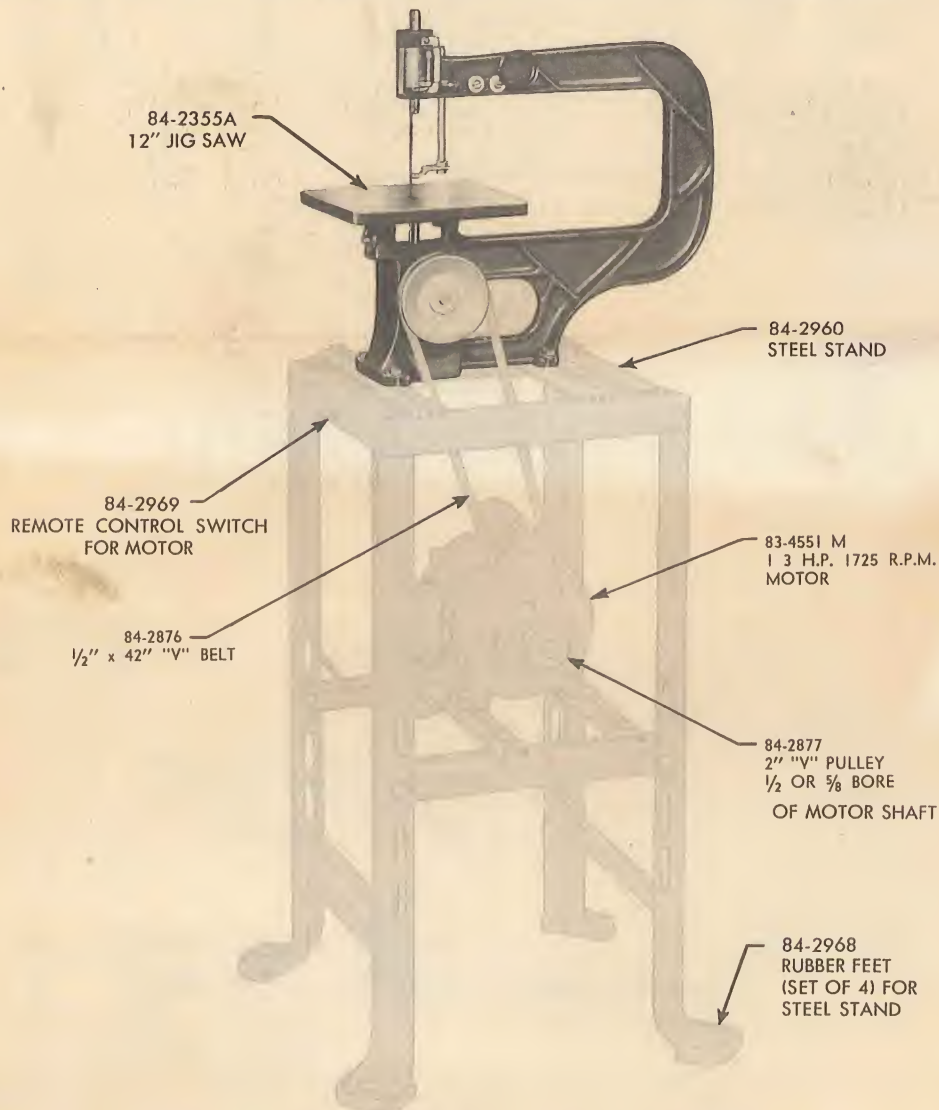
84-2378	.020 x .110 - 10 Teeth	Pkg. of 6	For thin metals, bone, pearl and hard substances.		
84-2378	.020 x .110 - 15 Teeth	Pkg. of 6			
84-2379	.020 x .070 - 15 Teeth	Pkg. of 6	84-2382	Assorted sizes	Pkg. of 12

For work in metals, woods and other substances

For general use

For other blades and power tool accessories see our catalogs.

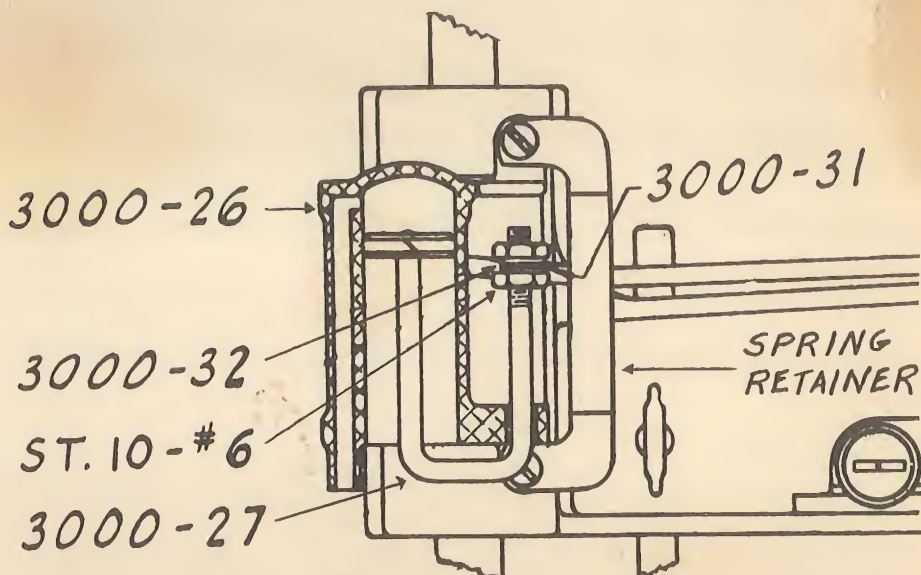
PHANTOM SKETCH — INDICATES ITEMS AND THEIR PART NUMBERS. THESE ITEMS WILL INCREASE THE EFFICIENCY OF YOUR TOOL. WHEN ORDERING ANY OF THESE ITEMS PLEASE USE PART NUMBER FOR THE PART YOU WISH TO PURCHASE.



DARK PICTURE — INDICATES TOOL AS YOU PURCHASED IT.

SEE WARD'S CATALOGS OR GO TO WARD'S RETAIL STORE
FOR SELLING PRICE ON THE ILLUSTRATED ITEMS.

M O N T G O M E R Y W A R D U . S . A .



QUAN. USED	PART NO.	DESCRIPTION	PRICE EACH
1	3000-25	Pump Assembly Complete	\$.63
1	3000-26	Air Pump Cylinder	.40
1	3000-27	Connecting Rod Assembly	.15
1	3000-31	Spring Lower Clamp	.05
1	3000-32	Spring Upper Clamp	.05
2	ST10-#6	Standard Hexagon Nut	.05

PRICES SUBJECT TO MARKET CHANGE

HOW TO ATTACH AIR PUMP

To attach air pump remove the two round head screws holding the spring retainer to the upper arm. Place Pump against arm and replace retainer as shown in Drawing and fasten with the same screws. Attach and lock the clamp on the spring. Turn the pulley by hand until the upper spindle reaches its lowest point. Then adjust the piston rod by raising or lowering the hex nuts until the pump leather is not more than $\frac{3}{16}$ " from bottom of the cylinder wall. When adjustment is correct lock clamp securely on the piston rod.

To keep the leather soft occasionally spread a small amount of vaseline around the wall of the cylinder when the leather is at the top of the stroke.